

### **PCT**

### **NOTIFICATION OF ELECTION**

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International filing date (day/month/year)

Applicant's or agent's file reference

Priority date (day/month/year) 07 July 1999 (07.07.99)

**Applicant** 

HÄLIKKÄ, Antero et al

1.	The designated Office is hereby notified of its election made:
ŀ	X in the demand filed with the International Preliminary Examining Authority on:
	29 January 2001 (29.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
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### REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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International Application No. PCT/FI 0 0 / 0 0 6 0 6

International Filing Date

0 3 JUL 2000 (0 3 -87- 2000)

The Finnish Patent Office **PCT International Application** 

Name of receiving Office and "PCT International Application"

according to the rulent cooperation	Applicant's or agent's file reference (if desired) (12 characters maximum)				
Box No. I TITLE OF INVENTION					
Method for remote directing o	f www-browser				
Box No. II APPLICANT					
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of con address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)					
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claims : 1 4. statement explaining lack of signature  abstract : 1 5. priority document(s) identified in Box No. VI as item(s):						
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Figure of the drawings which should accompany the abstract: Fig. 1 Language of filing of the international application: Finnish						
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Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).						
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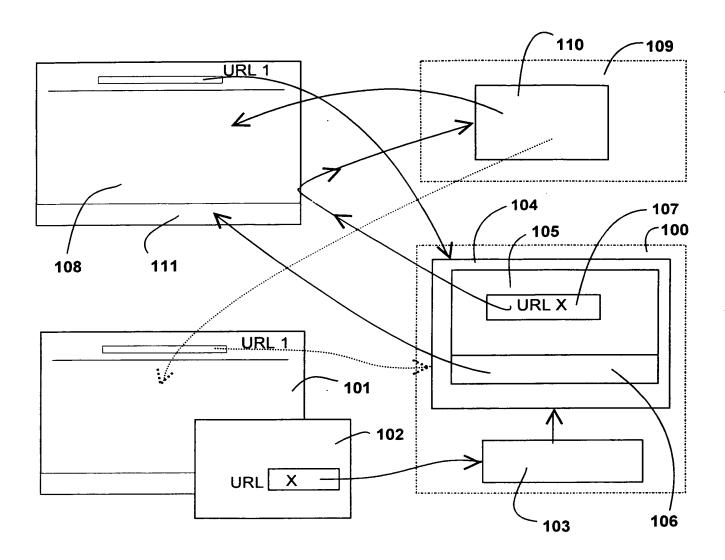


Fig. 1

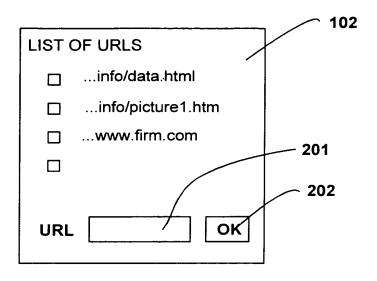


Fig. 2

### Menetelmä www-selaimen kauko-ohjaamiseksi

Keksinnön kohteena on menetelmä, jolla voidaan vaihtaa tietyllä yhdellä tai useammalla www-selaimella näkyvää sivua ohjaajan oman selaimen ikkunan kautta.

Sekä visuaalinen tiedonvälitys että puhekontakti voidaan nykyisellä tekniikalla toteuttaa yhtäaikaisesti internet-verkon kautta. Tämä edellyttää kuitenkin osapuolet hankkimaan järjestelmiinsä äänentoistotekniikkaa ja erikoisohjelmistoja tunnettujen www-selainten, kuten Microsoft Internet Explorer, Netscape Navigator, lisäksi. Jo nykyisellä ja tavanomaisella internet-tekniikan tasolla kommunikointia puhelimella voidaan hyvin täydentää wwwsivujen esittelemisellä, tyypillisesti kuvallisen informaation välittämiseksi ja siirtämiseksi. Kuvallisen internet-tiedon siirto perustuu kuitenkin selaimen aktiiviseen käyttöön niin, että hakija antaa selaimelleen osoitteita, joista tieto haetaan. Tällöin informaatiota esittelevän on puhelimessa ohjattava kumppaniaan tai asiakastaan valitsemaan aina tarvittava www-sivu tämän selaimelle annettavalla URL-osoitteella. Osoitteet ovat tyypillisesti hyvin pitkiä ja tällöin haitaksi muodostuu puhelimella annetun ohjeen epätarkkuus ja virhemahdollisuus erikoismerkkien osalta ja varsinkin jos pieniä ja isoja kirjaimia esiintyy merkkijonossa vaihtelevasti. Erityisesti tilanteessa, missä puhelinneuvottelua halutaan täydentää www-sivujen esittelyllä, joutuu puhelimella kuvia selostava ohjaamaan jokaista kuuntelijaa selaimen käytössä, mikä häiritsee varsinaista sisällön esittelyä, ja siksi tämä menettely ei ole käytännöllinen. Haitta korostuu erityisesti suuressa yleisötilaisuudessa, missä käytetään videotykkiä www-sivujen esittämiseen ja esittelijä pitää esitelmänsä puhelimen välityksellä. Myös sähköisessä kaupankäynnissä on tilanteita, joissa on tarve olla suorassa kontaktissa asiakkaaseen, jolloin puhelin on luonnollinen yhteydenottotapa. Tällöin esimerkiksi tuote-esittely voidaan käydä esittelemällä vain niitä www-sivuja, joissa on kiinnostavaa tietoa, mutta tämä vaatii jatkuvaa kuuntelijan ohjausta sivujen valitsemisessa.

Mainitut tapaukset ovat synnyttäneet tarpeen sellaisen menetelmän kehittämiseksi, joissa puhelimella erilaisia asioita esittelevä voi ohjata kuuntelijan www-selainta, tämän tarvitsematta kajota selaimeensa esittelyn aikana.

Tunnetut lähinnä vastaavanlaiseen tarkoitukseen tarkoitetut menetelmät vaativat eri osapuolten internet-valmiuksien täydentämistä lisäohjelmistolla ja -varusteilla ja niiden asentamista jokaisen kuuntelijan tietokoneelle.

Keksinnön tarkoituksena on välttää haitta, mikä aiheutuu lisäohjelmistojen ja varusteiden puuttumisesta, niiden aiheuttamista kustannuksista tai puhelinlinjalla annettujen

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ohjeiden tuottamasta häiriöstä esiteltävän aiheen informaatiosisällölle ja virhemahdollisuudesta selaimilla katselevien URL-osoitteiden kirjoittamisessa. Keksinnön mukaisessa menetelmässä erityinen etu on siinä, että kuuntelevat osapuolet voivat jo tavanomaisilla internetliitynnöillä ja tavallisella puhelinyhteydellä, jo olemassa olevalla tavanomaisella internet- ja puhelintekniikalla, nauttia menetelmän tuottamasta hyödystä.

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Mainittujen haittojen poistamiseksi ja etujen aikaansaamiseksi keksinnön mukaiselle menetelmälle on tunnusomaista se, että menetelmän käyttäjä, ohjaaja, omalla selaimellaan määrittelee kuulijoidensa selaimelle tulevan tietyn www-sivun ikkunaan näytettäväksi
tarkoitetun sivun linkin, joka puolestaan määrittelee sen, mitä kuulijan selaimen ikkunassa
esitetään.

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Keksinnön mukaista menetelmää selostetaan seuraavassa esimerkin avulla viittaamalla oheisiin piirustuksiin, joissa

Fig. 1 esittää internet-selaimen kauko-ohjausmenetelmän toiminnallisia osia ja niiden välisiä yhteyksiä.

Fig. 2 esittää ohjausikkunaa, johon voidaan tuoda ennalta muistiin tallennettuja URL-osoitteita

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Menetelmän käyttäjä, ohjaaja, pyytää asiakastaan tai keskustelukumppaniaan, jota kutsutaan jatkossa kuuntelijaksi, valitsemaan selaimellaan palvelimella (100) sijaitsevan osoitteen URL 1, jota hän myös seuraa omalla selaimellaan (101). Ohjaaja antaa omalta selaimen ohjausikkunalta (102) osoitteen URL X, joka vastaanotetaan palvelimella (100), olevan CGI-ohjelman (103) käsiteltäväksi. Monella eri tavalla, yleisesti tunnettua ohjelmointitekniikkaa käyttäen, voidaan luoda kokonaan tai osittain dynaamisia internet-sivuja selaimille. Esimerkkitapauksessa ohjelma (103) luo sivun (104), jonka osoite on URL 1, ja sille tiedoston (105) ja haluttaessa informaatiokehyksen (106). Tiedostossa (105) on kehys (107), joka muodostaa ikkunan esitettävälle www-sivulle, joka löytyy osoitteesta URL X. Kuuntelijan selain (108) sekä ohjaajan selain (101) saatuaan www-sivun osoitteesta URL 1 hakee kehykseen (107) tiedoston (105) antamasta osoitteesta URL X, palvelimelta (109), www-sivun (110) ja näyttää sen kehyksessä (107). Sivu (104) huolehtii siitä, että kun osoite URL X vaihtuu uudeksi, niin selaimet (101) ja (108) päivittävät sivun vastaavasti. Päivitykseen voidaan käyttää selainten tuntemaa "RELOAD" tai "REFRESH" -komentoa. Sivu (104) voidaan varustaa myös sellaisella jatkuvasti palvelimella (100) olevaa parametria tarkkailevalla toiminnolla, ja sellaisella ohjelmalla (103), että kun tämä muuttaa osoitetta URL X, niin se muuttaa myös

tarkkailtavaa parametria, jonka huomattuaan sivun toiminto vasta käynnistää sivun (104) päivityksen. Yhden toteutustavan mukaisesti tiedoston ja sen sisältämän parametrin tarkkailuun selaimella voidaan käyttää JavaScript-ohjelmistokielen "FileUpload"-elementtiä tai vastaavaa toimintoa. Tällöin on huolehdittava siitä, että selain päivittää tietonsa palvelimelta eikä paikalliselta kovalevyltä (cache-muistista). Tämä voidaan toteuttaa esimerkiksi välittämällä selaimelle, usealla vaihtoehtoisella tavalla, pyyntö päivittämään muuttuvan parametrin sisältävä tiedosto palvelimelta html-sivun "META"-kentässä.

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Kuvassa Fig. 2 on esitetty, millaiseksi ohjaajan ohjausikkuna (102) voidaan täydentää, jolloin siihen voidaan tuoda ennalta muistiin tallennettuja URL-osoitteita. Ikkuna toimii esimerkiksi niin, että valittu osoite siirtyy ikkunan (102) syöttökenttään (201), josta se siirtyy hyväksyntäkomennolla, painiketta (202) painamalla pavelimelle (100) (Fig. 1). Vastaavalla tavalla voidaan myös luoda ohjausikkuna ja käyttää ennalta laadittua kuuntelijalistaa niistä, joille sallitaan pääsy www-sivulle (104).

Menetelmän toteuttamiseen kuvatulla tavalla tarvittavat internet-sivut, html-dokumentit, ja palvelimella toimivat ohjelmistot, ovat yleistä ja tunnettua ohjelmointitekniikkaa, joten menetelmän ja siihen tarvittavan ohjelmoinnin pystyy ammattinsa osaava henkilö tässä esitetyn kuvauksen perusteella toteuttamaan monella eri vaihtoehtoisella tavalla ja eri ohjelmointikielellä, tulkattavalla tai käännettävällä, ja/tai niiden yhdistelmällä. Esimerkkinä mainittakoon ohjelmistokielistä ActiveX, C, C++, Java, JavaScript, JScript, Perl, VBScript, mitkä eivät suinkaan rajoita toteuttamasta menetelmää vielä jollakin muulla standardoituun tiedonsiirtorajapintaan mukautuvalla kielellä.. Ohjeita menetelmän yksityiskohtaiseksi toteuttamiseksi saa runsaasti muun muassa mainittujen ohjelmistokielien kehittäjien www-sivuilta sekä CGI-rajapinnan kehittäjän NCSA:n palvelimelta.

Keksinnön mukaisen menetelmän sovellutusmuodot voidaan luonnollisesti toteuttaa alan ammatti-ihmisen toimesta myös muullakin kuin edellä kuvatulla tavalla seuraavassa esitettyjen patenttivaatimusten puitteissa.

### Patenttivaatimukset

1. Menetelmä www-selaimen kauko-ohjaamiseksi, missä ohjaaja omalla selaimellaan (102) määrittelee internetin kautta palvelimella (100), jolle hänellä on käyttöoikeus, sijaitsevalle menetelmään kuuluvalle ohjelmalle (103), joka ohjaa ohjelmakoodia sisältäviä tiedostoja, joita yhdistää yhden tai useamman kuuntelijan sivu (104), kuuntelijansa internetselaimelle tarkoitetun html-dokumentin, jolle kuuntelijalle on pääsy selaimensa (108) ja käyttäjällä selaimensa (101) kautta, ilmoittaa sen kuuntelijan valittavaksi, valitsee edelleen selaimellaan sivun (104) ikkunassa (107) näytettäväksi tarkoitetun vapaasti valitun minkä tahansa www-sivun (110) osoitteen, joka välitetään palvelimelle, joka välittää sen ohjelmalle (103), joka puolestaan upottaa sivun (110) osoitteen kuuntelijan sivulle (104) t u n n e t t u siitä, että kuuntelijan sivu (104), kun kuuntelijan selain (108) näyttää sen, ohjaa tätä selainta jatkuvasti tarkistamaan käyttäjän palvelimelta mahdolliset muutokset sivuun (104), ja jos niitä havaitaan, päivittää vastaavasti kuuntelijan selaimen kopion sivusta (104) vastaamaan palvelimella sijaitsevaa tiedostoa.

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2. Patenttivaatimuksen 1 mukainen menetelmä, t u n n e t t u siitä, että menetelmässä ehdollistetaan kuuntelijan sivun (104) päivittäminen tarkkailemalla kuuntelijan selaimella muutosta palvelimella olevassa parametrissa, jota ohjelma (103) muuttaa aina kun uusi www-osoite on valittu, jonka jälkeen vasta päivitetään kuuntelijan selaimen kopio sivusta (104).

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- 3. Patenttivaatimuksen 1 mukainen menetelmä, t u n n e t t u siitä, että menetelmän käyttäjä voi poimia ennalta laaditusta selaimellaan näkyvästä osoitelistasta kulloinkin kuuntelijan näyttöikkunassa (107) näytettävän internet-sivun (110) osoitteen.
- 4. Patenttivaatimusten 1, 2, ja 3 mukainen menetelmä, t u n n e t t u siitä, että menetelmän käyttäjä voi ennalta laaditusta selaimellaan näkyvästä listasta poimia kuuntelijat, joille sallitaan pääsy sivulle (104).

### (57) Tiivistelmä

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Keksinnön kohteena on menetelmä, jolla voidaan vaihtaa etäällä, esimerkiksi puhelinyhteyden päässä, olevan yhden tai useamman kuulijan www-selaimella näkyvää sivua ohjaajan oman selaimen ikkunan kautta. Keksinnön mukaan ohjaaja opastaa aluksi kuulijansa valitsemaan tietyn, käytössään olevalle palvelimelle luodun, www-sivun, jota ohjaavalle ohjelmalle hän antaa uusia URL-osoitteita, jotka ohjelma puolestaan upottaa kuulijan selaimen sivulle. Tästä seuraa se, että kuulijan selain saa esitettäväkseen ohjaajan valitsemaa URL-osoitetta vastaavan sivun. Tämä toteutetaan niin, että kuulijan selain päivittää tietonsa aina palvelimelta, jolloin sivu uudistuu ohjaajan valintojen mukaisesti.

## PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTH

INTERNATIONAL PRELIMINARY EX	EAVIININO AUTHORITI	Ĺ	•		
То:			DCT		
CURIOSITAS LTD Ky			PCT		
c/o Innovo Ky					
Hermiankatu 8D		•	WRITTEN OPINION		
FIN-33720 Tampere Finland			(PCT Rule 66)		
rintano			,		
		· · · · · · · · · · · · · · · · · · ·			
		Date of mailing (day month year)	1 2 -07- 2001		
Applicant's or agent's file reference		REPLY DUE	within 60 days from the above date of mailing		
International application No.	International filing date	(day month year)	Priority date (day/month/year)		
PCT/FI00/00606	03.07.2000		07.07.1999		
International Patent Classification (IPC) or	r both national classification	on and IPC <sub>7</sub>			
H04L 12/18, H04M 11/0		-			
Applicant					
CURIOSITAS LTD Ky et a	al				
1. This written opinion is the <u>fir</u>	` ′ ′	rawn by this Internati	ional Preliminary Examining Authority.		
2. This opinion contains indications rela	ating to the following item	15:			
I Basis of the report	-				
II Priority					
III Non-establishment of or	oinion with regard to novel	Ity, inventive step and	d industrial applicability		
IV Lack of unity of invention		· -	·		
Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international application					
3. The applicant is hereby invited to repl	3. The applicant is hereby invited to reply to this opinion.				
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).					
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.					
Also For an additional opportunity to submit amendments, see Rule 66.4.  For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.  For an informal communication with the examiner, see Rule 66.6.					
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
The final date by which the international preliminary examination report must be established according to Rule 69.2 is:  07.11.2001					
<del></del>					

Name and mailing address of the IPEA/SE Authorized officer Patent- och registreringsverket Box 5055 Telex 17978 S-102 42 STOCKHOLI PATOREG-S Kristoffer Ogebjer/EE Telephone No. 08-782 25 00 Facsimile No. 08-667 72 88

Form PCT/IPEA/408 (cover sheet) (January 1998)

International application No.

PCT/FI00/00606

I. Bas	asis of the opinion		
1. With	h regard to the elements of the international application:*		
	the international application as originally filed		
$\boxtimes$	the description:		
	pages 1-3	, as originally file	٦d
	pages		
<del></del>	pages		lu.
$\bowtie$	the claims:		-
	pages	, as originally filed	
		, as amended (together with any statement) under article 1	19
	pages _4, 5	, filed with the deman	
$\square$	pages	, filed with the letter of	_
لاعا	the drawings:		
	pages 1, 2		
	pages		ıd
	the sequence listing part of the description:	, mea with the retter of	
		as originally file	٠,
	pages	, as originally filed , filed with the demand	
	pagès		a
3. With r drawn	regard to any nucleotide and/or amino acid sequence disclost on the basis of the sequence listing:  contained in the international application in printed form.  filed together with the international application in computer r furnished subsequently to this Authority in written form.	international search (under Rule 23.1(b)).  (under Rule 48.3(b)).  If international preliminary examination (under Rules 55.2 and/ losed in the international application, the written opinion was  readable form.	
	furnished subsequently to this Authority in computer readable.  The statement that the subsequently furnished written require		
	The statement that the subsequently furnished written sequence international application as filed has been furnished. The statement that the information recorded in computer read been furnished.		
4.	The amendments have resulted in the cancellation of:		
1	the description, pages		
ř	The state of the s		
r	the drawings, sheet/fig	·	
5. 🔀	This opinion has been drawn as if (some of) the amendments beyond the disclosure as filed, as indicated in the Supplementation	s had not been made, since they have been considered to go ntal Box (Rule 70.2 (c)).	
	cement sheets which have been furnished to the receiving Offices opinion as "originally filed".	fice in response to an invitation under Article 14 are referred to	?

International application No.

PCT/FI00/00606

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

### Continuation of: I

The amended claims 5-8 are considered to go beyond the disclosure as filed.

Claims 5 and 6: it is not stated in the filed disclosure that several controllers are sharing the actions of the server. Neither is this disclosed in fig. 1.

Claim 7: stating that thousands of browsers are monitoring the change is considered to go beyond the filed disclosure even though browsers are mentioned in plural in the original disclosure.

Claim 8: it is not stated in the filed disclosure that the controller instructs the listeners via a broadcasting media

International application No.

PCT/FI00/00606

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Stater	

atement				
Novelty (N)	Claims	1-4		YES
	Claims		:	NO NO
Inventive step (IS)	Claims	2		YES
	Claims	1,3,4		NO.
Industrial applicability (IA)	Claims	1-4		YES
	Claims			NO

#### 2. Citations and explanations

### Cited documents:

D1: WO, A1, 9813995 D2: EP, A2, 0847178 D3: WO, A1, 9836456 D4: WO, A1, 9737484

D1 relates to a system that updates a meeting-place window of each user sharing a URL. The system receives an update request and, if the content has changed, sends the new content to the listener.

The inventive idea of the invention, according to claim 1, differs in the matter of the browser that checks for possible changes. In D1 the user request an update if a change has occurred, by this use of pulling updated information the invention, according to claim 1, is considered to lack an inventive step from what is known through D1.

To pick an address from a list, according to claims 3 and 4, is considered obvious to a person skilled in the art. Hence, the invention, according to claims 3 and 4, is considered to lack an inventive step.

D2 discloses a system where conferees may make editing changes to a currently viewed page and have the changes communicated to the other conferees via a conference server. Only the changes may be transmitted or the whole page including the changes may be transmitted from the conference server.

. . . / . . .

International application No.

PCT/FI00/00606

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

 ${\tt D3}$  relates to a system that updates  ${\tt HTML-pages}$  to a customer and an agent from a server.

D4 relates to system where each client's WEB browser requests and displays an image of a selected presentation. The image gets updated through pushing an updated image to the client from the server.

International application No.

PCT/FI00/00606

# VI. Certain documents cited Certain published documents (Rule 70.10) Application No. Publication date Filing date Priority date (valid claim) Patent No. (day/month/year) (day month year) (day/month/year) WO 0045240 A2 03.08.2000 27.01.2000 29.01.1999 Non-written disclosures (Rule 70.9) Date of written disclosure Kind of non-written disclosure Date of non-written disclosure referring to non-written disclosure (day/month/year) (day/month/year)

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

CURIOSITAS LTD Ky c/o Innovo Ky Hermiankatu 8D FIN-33720 Tampere Finland

## **PCT**

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

19-10-2001

Applicant's or agent's file reference

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/FI00/00606

03-07-2000

07-07-1999

Applicant

CÚRIOSITAS LTD Ky et al

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in som Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary axamination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM

Facsimile No. 08-667 72 88

Telex 17978 PATOREG-S Authorized officer

Marie Gysell

Telephone No.

08-782 25 00

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day m	<u></u> ,
PCT/F100/00606	03.07.2000	07.07.1999
International Patent Classification (IPC) o	<u> </u>	
H04L 12/18, H04M 11/0		<b>,</b>
	•	
Applicant		
CURIOSITAS LTD Ky et	al	
This international preliminary exa     Authority and is transmitted to the	mination report has been prepare applicant according to Article 3	ed by this International Preliminary Examining 36.
2. This REPORT consists of a total of	of 5 sheets, include	ding this cover sheet.
been amended and are the b	nied by ANNEXES, i.e., sheets cases for this report and/or sheets 607 of the Administrative Instru	of the description, claims and/or drawings which have containing rectifications made before this Authority uctions under the PCT).
These annexes consist of a total of	f 1 sheets.	
3. This report contains indications re	lating to the following items:	
1 Basis of the report		
II Priority		
<u> </u>	opinion with regard to novelty,	inventive step and industrial applicability
IV Lack of unity of inver	ntion	
V Reasoned statement u citations and explanat	inder Article 35(2) with regard to tions supporting such statement	o novelty, inventive step or industrial applicability;
VI Certain documents cit	ted ·	
VII Certain defects in the	international application	
•	on the international application	
<u></u>	11	
	٠	
Date of submission of the demand	Date o	of completion of this report
29.01.2001	17.	10.2001
Name and mailing address of the IPEA/SE	: Autho	orized officer
Patent- och registreringsverket Box 5055	Telen	
S-102 42 STOCKHOLD Facsimile No. 08-667 72 88		stoffer Ogebjer /OGU
Form PCT/IPEA/409 (cover shoot) (Innuas	1 retept	hone No. 08-782 25 00

International application No.

PCT/FI00/00606

I.	Bas	is of the	he report	
1.	With	геgard t	I to the elements of the international application:*	
		the int	nternational application as originally filed	•
	X	the de	lescription:	•
	12¥		s 1-3 , as original	lly filed
		pages		
		pages	s, filed with the letter of	
	$\boxtimes$	the cla	claims:	
		pages		-
		pages		
•		pages		demand
		pages		
	$\boxtimes$		frawings:	
			s 1-2 , as original	-
		-pages pages		demand
			equence listing part of the description:	<del></del> .
		pages	•	lly filed
		pages		
		pages		
·3.	These	the lan the lan the lan or 55.3 regard to inary e, contain filed to furnish The sta	anguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).  anguage of publication of the international application (under Rule 48.3(b)).  anguage of the translation furnished for the purposes of international preliminary examination (under Rules 55.5.3).  It to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:  ained in the international application in written form.  together with the international application in computer readable form.  shed subsequently to this Authority in written form.  shed subsequently to this Authority in computer readable form.  statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the	hich is:
		interna The sta	national application as filed has been furnished.  statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.	ns
4.		The an	amendments have resulted in the cancellation of:	
			the description, pages	
٠			the claims, Nos.	
			the drawings, sheet/fig	
5.		This rebeyone	report has been established as if (some of) the amendments had not been made, since they have been considerend the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).**	ed to go
*	in thi	rcement s report 70.17),	nt sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are re ort as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16	ferred to
**		=	ement sheet containing such amendments must be referred to under item 1 and annexed to this report.	
			The second of th	

International application No.

PCT/F100/00606

V.	Resoned statement under Autilia 25/20	
٠.	reasoned statement under Article 35(2) With regard to novelly, invent	ive stop or inductable analysistem
	Reasoned statement under Article 35(2) with regard to novelty, invent	ere agely or monaction abbitconility.
	citations and explanations supporting such statement	• •

1	Statement
Ι.	otatement

Novelty (N)	Claims Claims	1-4	YES
Inventive step (IS)	Claims Claims	1-4	NO
Industrial applicability (IA)	Claims Claims	1-4	YES NO

### 2. Citations and explanations (Rule 70.7)

### Cited documents:

D1: WO, A1, 9813995 D2: EP, A2, 0847178 D3: WO, A1, 9836456

D4: WO, A1, 9737484

D1 relates to a system that updates a meeting-place window of each user sharing a URL. The system receives an update request and, if the content has changed, sends the new content to the listener.

D2 discloses a system where conferees may make editing changes to a currently viewed page and have the changes communicated to the other conferees via a conference server. Only the changes may be transmitted or the whole page including the changes may be transmitted from the conference server.

D3 relates to a system that updates HTML-pages to a customer and an agent from a server.

D4 relates to system where each client's WEB browser requests and displays an image of a selected presentation. The image gets updated through pushing an updated image to the client from the server.

The invention defined in claims 1-4 is not disclosed by any of these documents.

None of the cited documents gives any indication towards the claimed method of changing a web page being displayed centrally. No relevant combination of the cited documents would lead a person skilled in the art to the invention defined in the claims.

International application No.

PCT/FI00/00606

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V.

Therefore, the invention defined in claims 1-4 is novel and is considered to involve an inventive step. It is also considered to be industrially applicable.

International application No.

I. Ce	ertain published documents (Re	de 70.10)		
	Application No. Patent No.	Publication date (day month year)	Filing date (day month year)	Priority date (valid claim) (day month year)
	WO 0045240 A2	03.08.2000	27.01.2000	29.01.1999
-				
				·
	``.			
	•			
No	on-written disclosures (Rule 70)	9)		
	Kind of non-written disc	closure Date of non-	written disclosure re nonth year)	Date of written disclosure ferring to non-written disclosure (day month year)

PCT/ F1 00 / 00 60 6

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The Swedish Patent Application

28 -08- 2001

### Claims

1. A method for remote directing a www-browser, in which the controller starting a session, using his/her own www-browser (102), specifies via Internet an HTML-document for the browser of one or more listeners, being accessible to them trough their browsers (108), and to said controller trough his or her browser (101), to a program, which is a part of the method and is located in a server (100) accessible to said controller; said program controlling code containing files embedded onto the page (104); said controller instructing the listeners via any simultaneously used media to choose said HTML-document, further specifying by means of his browser the address of the www-page (110) intended to be displayed in the window (107) of the page (104); and said address being further delivered to the server and to said program, which embeds said address of the page (110) onto the listeners' page (104) characterized in that the listeners' page (104), upon being displayed by listeners' browsers (108) and controller's browser (101), makes said browsers continuously check for possible changes in said documents in the controller's server (100), and finding the changes, refreshes the copy of the page (104) of said listeners' browsers to match said files at the server, the refreshing of the listeners' page (104) being conditioned by monitoring change in a parameter residing in the said server, changed by the program (103) upon a different www-address having been chosen, after which the copy of the page (104) in the listeners' www-browsers (108) and controller's www-browser (101) is refreshed.

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- 2. A method as claimed in Claim 1 **characterized** in that the controller picks the address of the www-document displayed on the listeners' www-browsers (108) from a previously created list of www-addresses.
- 3. A method as claimed in Claim 1, and 2 characterized in that the controller chooses the listeners allowed to access to the page (104) from a previously created list displayed on his/her www-browser.
- 4. A method as claimed in Claims 1 and 2 characterized in that by browsers (101) and (108), several listeners and at least one controller by his/her browser (102) are sharing the actions of said server(100) and said program (103) during the session.

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### Claims

1. A method for remote directing a www-browser, in which the controller starting a session, using his/her own www-browser (102), specifies via Internet an HTML-document for the browser of one or more listeners, being accessible to them trough their browsers (108), and to said controller trough his or her browser (101), to a program, which is a part of the method and is located in a server (100) accessible to said controller; said program controlling code containing files embedded onto the page (104); said controller instructing the listeners via any simultaneously used media to choose said HTML-document, further specifying by means of his browser the address of the www-page (110) intended to be displayed in the window (107) of the page (104); and said address being further delivered to the server and to said program, which embeds said address of the page (110) onto the listener's page (104) characterized in that the listeners' page (104), upon being displayed by listeners' browsers (108), makes said browsers continuously check for possible changes in said documents in the controller's server (100), and finding the changes, refreshes the copy of the page (104) of said listener's browser to match said files at the server.

- 2. A method as claimed in Claim 1 **characterized** in that the refreshing of the client's page (104) is conditioned by monitoring change in a parameter residing in the said server, changed by the program (103) upon a different www-address having been chosen, after which the copy of the page (104) of the client's www-browser (102) is refreshed.
- 3. A method as claimed in Claim 1 and 2 **characterized** in that the controller picks the address of the www-document displayed on the clients' www-browsers (108) from a previously created list of www-addresses
- 4. A method as claimed in Claim 1, 2, and 3 **characterized** in that the controller chooses the client allowed to access to the page (104) from a previously created list displayed on his/her www-browser.
- 5. A method as claimed in Claims 1 2, and 3 **characterized** in that by browsers (102) and (101), several controllers are sharing the actions of said server and said program during the session.
- 6. A method as claimed in Claims 1, 2, 3, and 5 characterized in that the combination of said listeners and said controllers varies by sessions.
- 7. A method as claimed in Claims 1 and 2, **characterized** in that the page (104) is displayed and said change is monitored by, say, thousands of listeners' browsers within a

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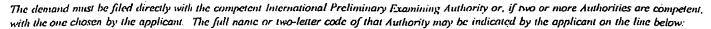
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session.

8. A method as claimed in Claims 1, 2, 3, and 7, **characterized** in that said controller instructs the listeners via a broadcasting media.



# **PCT**

**CHAPTER II** 

### **DEMAND**

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only					
Identification of IPEA		Date of receipt of DEMAND			
Box No. 1 IDENTIFICATION OF THE INTERNATIONAL		APPLICATION	Applicant's or agent's file reference		
International application No. International filing date		(day/month/year)	(Earliest) Priority date (day/month/year)		
PCT/F100/00606	3.7.2000		7.7.1999		
Title of invention  Method for Y	remote directing	of www-browse	r		
Box No. II APPLICANT(S)					
	postal code and name of country.	full official designation.	Telephone No. +358 3 3165018		
CURIUSI c/o Inr	TAS LTD Oy		Facsimile No.:		
Hermian	nkatu 8 D		+358 3 3165808		
FIN-33, Finland	/20 Tampere I		Teleprinter No.:		
State (that is, country) of nationality:		State (that is, count	יני) of residence:		
Finland		Finland			
HÄLIKK/ Nurmeni	A, Antero katu 6 320 Tampere	ull official designation. The	address must include postal code and name of country.)		
State (that is, country) of nationality:		State (that is, count	ry) of residence:		
Finland	1	Finl			
Name and address: (Family name followed by	given name; for a legal entity, f	ill official designation. The	address must include postal code and name of country.)		
State (that is, country) of nationality. Finland	l .	State (that is, country			
Further applicants are indicated or	a continuation sheet.				

		2
Sheci	No	. 2.

International application No. PCT/FI00/00606

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE					
The following person is agent common representative					
and has been appointed earlier and represents the applicant(s) also for international preliminary examination.					
is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.					
is hereby appointed, specifically for the procedure before the International Prelimi the agent(s)/common representative appointed earlier.	nary Examining Authority, in addition to				
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country.)	Telephone No.:				
	Facsimile No.:				
	Teleprinter, No.:				
Address for correspondence: Mark this check-box where no agent or common re space above is used instead to indicate a special addr ess to which correspondence	presentative is/has been appointed and the should be sent.				
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION					
Statement concerning amendments:*					
1. The applicant wishes the international preliminary examination to start on the basis of:	•				
the international application as originally filed					
the description x as originally filed					
as amended under Article 34					
the claims as originally filed					
as amended under Article 19 (together with any accompanying	statement)				
X as amended under Article 34	· .				
the drawings X as originally filed					
as amended under Article 34					
2. The applicant wishes any amendment to the claims under Article 19 to be consider	ed as reversed.				
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months					
from the priority date unless the International Preliminary Examining Authority re under Article 19 or a notice from the applicant that he does not wish to make such a	eccives a copy of any amendments made				
box may be marked only where the time limit under Article 19 has not yet expired.	(This check-				
<ul> <li>Where no check-box is marked, international preliminary examination will start on the as originally filed or, where a copy of amendments to the claims under Article 19 and/or amounder Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.</li> </ul>	rendments of the international application				
Language for the purposes of international preliminary examination: english					
which is the language in which the international application was filed.					
which is the language of a translation furnished for the purposes of internation	al search.				
x which is the language of publication of the international application.					
which is the language of the translation (to be) furnished for the purposes of it	nternational preliminary examination.				
Box No. V ELECTION OF STATES					
The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT)					
excluding the following States which the applicant wishes not to elect:					

Sheet No.	≺ .
SHEET NO	J

International application No. PCT/FI00/00606

Box N	o. VI	CHECK LIST	`				
The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:  For International Preliminary Examining Authority use only received not received							
1.	1. translation of international application : sheets						
2.	armendments under Article 34 : 2 sheets						
	copy (or, where required, translation) of amendments under Article 19 : sheets						
		(or, where required, translation) of nent under Article 19	:		sheets		
5.	letter	Applicant's opinion	:	2	sheets		
6.	other	(specify)	:		shects		
The de	emano	is also accompanied by the item(s) ma	rked below:				
1.	X	fee calculation sheet		4.	statement c	explaining lack of sign	ature
2.		separate signed power of attorney		5.		and or amino acid seq	uence listing in
3.		copy of general power of attorney, reference number, if any:		6.	other (spec		
Box N	ło. <b>V</b> I	I SIGNATURE OF APPLICANT,	GENT OR	COMMON	REPRESE	NTATIVE	
Next to	each si	gnature, indicate the name of the person signing	and the capacity	in which the per	zon zignz (if su	uch capacity is not obvious f	rom reading the demand).
		Tampere, 25.1.	2001				,
	Antero Hälikkä						
		For Internatio	nal Prolimina	ry Framinin	Authority	use only	
1.	Date o	of actual receipt of DEMAND:	na r comma		5		
		ted date of receipt of demand due RRECTIONS under Rule 60.1(b):					
The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.  The applicant has been informed accordingly.							
·4.		The date of receipt of the demand is Rule 80.5.	WITHIN the	period of 19	months fro	om the priority date as	extended by virtue of
Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.							
For International Bureau use only							
Dema	Demand received from IPEA on:						

# PATENT COOPERATION TREAS

# **PCT**

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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPE/									
International application No.	International filing date (day mo	nth year)	Priority date (day month year)								
PCT/F100/00606	03.07.2000		07.07.1999								
nternational Patent Classification (IPC) or national classification and IPC7											
H04L 12/18, H04M 11/06											
Applicant											
CURIOSITAS LTD Ky et al											
		<del></del>									
This international preliminary exa Authority and is transmitted to the	mination report has been prepared applicant according to Article 30	I by this Intern 5.	ational Preliminary Examining								
2. This REPORT consists of a total c	of 5 sheets, includ	ing this cover	sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).											
These annexes consist of a total o	f 1 sheets.										
3. This report contains indications re	3. This report contains indications relating to the following items:										
1 Basis of the report											
II Priority	II Priority										
III Non-establishment of	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability										
IV Lack of unity of inve	IV Lack of unity of invention										
V Reasoned statement under Article 35(2) with regard to novelty, inventive step_or industrial applicability: citations and explanations supporting such statement											
· ·											
VII Certain defects in the international application											
VIII Certain observations on the international application											
<u> </u>											
Date of submission of the demand	Date o	f completion of	of this report								
29.01.2001	17.	10.2001	·								
Name and mailing address of the IPEA/S	E Autho	Authorized officer									
Patent- och registreringsverket Rox 5055	Tele;;										
S-102 42 STOCKHOLH			Ogebjer /OGU								

International application No.	
PCT/F100/00606	

I.	Basi	is of the	e report
1.	With:	regard t	to the elements of the international application:*
		the int	ternational application as originally filed
	$\boxtimes$	the de	escription:
	-	pages	1-3 , as originally filed
		pages	filed with the demand
		pages	
	$\boxtimes$	the cla	
		pages	, as originally filed
		pages	as amended (together with any statement) under article 19
		pages	, filed with the demand $\frac{4}{28.08.2001}$
			awings:  1 2
		pages	1-2 , as originally filed filed with the demand
		pages	
			quence listing part of the description:
		pages	as originally filed
		pages	, filed with the demand
		pages	
	the in	ternatio	to the language, all the elements marked above were available or furnished to this Authority in the language in which onal application was filed, unless otherwise indicated under this item.  In the language in which is:  The language in t
		the lar	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	$\boxtimes$		nguage of publication of the international application (under Rule 48.3(b)).
			nguage of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/
3.	With prelin	regard (	to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international examination was carried out on the basis of the sequence listing:
		contai	ined in the international application in written form.
	而	filed t	ogether with the international application in computer readable form.
	П	furnis	hed subsequently to this Authority in written form.
	Ħ	furnis	shed subsequently to this Authority in computer readable form.
		intern The st	tatement that the subsequently furnished written sequence listing does not go beyond the disclosure in the lational application as filed has been furnished. tatement that the information recorded in computer readable form is identical to the written sequence listing has furnished.
4		The a	mendments have resulted in the cancellation of:
			the description, pages
			the claims. Nos.
			the drawings, sheet/lig
5		This r	report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).**
*	in th		nt sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to rt as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16
**	Any	replace	ement sheet containing such amendments must be referred to under item I and annexed to this report.
i.c.	11/1	1.4171.4	/400 (Day I) (January 1009)

International application No.

PCT/FI00/00606

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

l. Statemen	ı	1	e	n	1	1	t	ล	t	S			ı
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2. Citations and explanations (Rule 70.7)

Cited documents:

D1: WO, A1, 9813995

D2: EP, A2, 0847178

D3: WO, A1, 9836456

D4: WO, A1, 9737484

D1 relates to a system that updates a meeting-place window of each user sharing a URL. The system receives an update request and, if the content has changed, sends the new content to the listener.

D2 discloses a system where conferees may make editing changes to a currently viewed page and have the changes communicated to the other conferees via a conference server. Only the changes may be transmitted or the whole page including the changes may be transmitted from the conference server.

D3 relates to a system that updates HTML-pages. to. a customer and an agent from a server.

D4 relates to system where each client's WEB browser requests and displays an image of a selected presentation. The image gets updated through pushing an updated image to the client from the server.

The invention defined in claims 1-4 is not disclosed by any of these documents.

None of the cited documents gives any indication towards the claimed method of changing a web page being displayed centrally. No relevant combination of the cited documents would lead a person skilled in the art to the invention defined in the claims.

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International application No.

PCT/FI00/00606

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V.

Therefore, the invention defined in claims 1-4 is novel and is considered to involve an inventive step. It is also considered to be industrially applicable.

Form PCT/IPEA/409 (Supplemental Box) (January 1998)



International application No.

PCT/FI00/00606

VI.	Certain de	icuments cited					
1.	Certain pı	ıblished docume	nts (Rule	70.10)			
		Application No Patent No.	<i>t.</i>	Publicat (day mor		Filing date (day month year)	Priority date (valid claim) (day month year)
	WO	0045240	A2	03.08.	.2000	27.01.2000	29.01.1999
	·						
2.	Non-writt	en disclosures (I	Rule 70.9)	<u> </u>		•	Date of written disclosure
		Kind of non-wri	tten disclo	sure		on-written disclosure v month year)	referring to non-written disclosure (day month year)
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							•

### Claims

1. A method for remote directing a www-browser, in which the controller, using his own www-browser (102), specifies via Internet an HTML-document for the browser of one or more listeners, being accessible to them trough their browsers (108), and to said controller trough his or her browser (101), to a program, which is a part of the method and is located in a server (100) accessible to said controller; said program controlling code containing files embedded onto the page (104), said controller instructing the listeners to choose said HTML-document, further specifying by means of his browser the address of the www-page (110) intended to be displayed in the window (107) of the page (104); and said address being further delivered to the server and to said program, which embeds said address of the page (110) onto the listener's page (104) wherein:
the listeners' page (104), upon being displayed by listeners' browsers (108), makes said browsers continuously check for possible changes in said documents in said controller's server, and finding the changes, refreshes the copy of the page (104) of said listener's browser to match said files at the server.

- 2. A method as claimed in claim 1 wherein the refreshing of the client's page (104) is conditioned by monitoring change in a parameter residing in the said server, changed by the program (103) upon a different www-address having been chosen, after which the copy of the page of the client's www-browser is refreshed.
- 3. A method as claimed in claim 1, wherein the controller can pick the address of the www-document displayed on the clients' www-browsers from a previously created list of www-addresses
- 4. A method as claimed in claim 1, 2, and 3 wherein the controller can choose the client allowed to access to the page (104) from a previously created list displayed on his or her www-browser.

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Replaced by artisle. 34

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Method for remote directing of www-browser

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The content of the invention is a method by which the www-document displayed on one or more www-browsers can be changed by the controller through a window of his or her www-browser.

Simultaneous visual communication and phone contact is possible with current Internet technology. However, this requires that all parties have the necessary audio hardware as well as special software extensions to known www-browsers, such as Microsoft Internet Explorer and Netscape Navigator. With current technology it is possible to augment phone communication with presenting www-documents, usually to provide visual information. The transmission of visual information is based on active use of the www-browser. in that the controller gives www-addresses to the listener, who then proceeds to direct his www-browser to the given www-address. The www-addresses are usually fairly long, and thus the imprecision of instructions given on phone is a disadvantage, especially due to the presence of special control characters and case sensitivity in the www-addresses (URLs). Especially in a situation in which it is desired that a phone negotiation be augmented with presentation of www-pages, the maintainer of the negotiation has to specifically instruct each party in using their respective www-browsers, making it hard for them to appreciate the contents of the presented www-documents. This makes the arrangement impractical; the disadvantage manifests itself especially when the intended audience is large, with a video projector or similar piece of equipment used to display the www-pages. Also in e-commerce there are situations in which a direct contact to the customer is required, making the phone a natural choice for communication. In such situations, say, product presentations can only be done by means of www-documents with the relevant information - this however requires constant instruction from the maintainer for the client in directing his www-browser to the desired documents.

The aforementioned situations have created a need for creating a method by which the www-browser of a listener can be controlled by the presenter without the need for the active participation of the client.

Known methods for similar purposes require all parties to obtain special software and equipment and install them onto their computers prior to the presentation.

The intent of the invention is to avoid the disadvantage caused by the special purpose additional software and equipment, namely their cost, the additional time required to

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instruct clients in installing and maintaining the special purpose components and the possibility of errors in writing and communicating URLs. The invention possesses the specific advantage of all parties being able to use the method with ordinary Internet-connections and ordinary phone line utilizing pre-existing Internet and telecommunications technology.

Characteristic to the method based on the invention is that in order to avoid the aforementioned disadvantages and bring forth the aforementioned advantages, the user of the method, controller, defines by means of her or his www-browser the specific www-document which is displayed in a window of the clients' www-browsers.

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Method based on the invention is illustrated and explicated by means of the following diagrams. in which

Fig. 1 presents the functional portions and interrelations thereof of the remote controlling of www-browser.

Fig. 2 presents the control window, into which previously saved URLs can be brought.

The user of the method, controller, asks his clients or conversant, henceforth listener. to direct his or her www-browser to a www-document specified by an URL pointing to a document in a server (100). The controller monitors this www-document in his own www-browser (101). The controller gives in the controller window in his or her www-browser (102) an address URL X, which is received in the server (100), and directed to a CGI-program (103) for processing. In various well known ways, it is possible to create partially or entirely dynamic www-documents. In the example the CGI-program (103) creates a www-document (104) containing the URL 1, and for it a file (105), and optionally an information frame (106). In the file (105) there is a frame (107) which forms a window for the www-document to be presented, found at URL X. Both the client's www-browser (108) and the controllers www-browser (101) upon receiving the www-document from URL 1, retrieve in the frame (107) a www-document at server (109) pointed to by the URL X the file (105). The document (104) ensures that when the URL X is changed, www-browsers (101) and (108) refresh the document respectively. This can be achieved by means of the command "RELOAD" or "REFRESH" supported by www-browsers. The document (104) can also implement a mechanism, which continously monitors a parameter at the server (100), and a program (103) which when URL X is changed sets the parameter, which is noticed by the mechanism, which then proceeds to refresh the document (104). A possible implementation uses the JavaScript-language element "FileUpload" or an equivalent thereof, with the parameter

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residing within a file in server (100). In the implementation, sepcial care is needed to ensure that the www-browsers retrieve the actual changed documents instead of relying on their local on-disk cache. This can be done in several ways, which include using the "META"-field of html-documents to request the www-browser to update the changing parameter.

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Fig. 2. illustrates one possibility of extending the control window (102), allowing previously saved URLs be brought into it. For example, the window could function in such a fashion that the URL chosen is transferred to the input field (201) of the window (102), from which it is transferred to the server (100) (Fig 1.) by pressing the acknowledgement button (202). In similar fashion it is possible to create a control window which uses a previously created list of listeners allowed to access the www-document (104).

The www-documents and server-side programs required to implement the method as described above are well-known technology, and thus a competent person can create a working implementation based on the description above in an alternative ways in different programming languages, both interpreted and compiled, including combinations of both. These languages include, but are not restricted to, ActiveX. C, C++, Java, JavaScrpt, JScript, Perl. VBScript. Instructions on implementing the details of the method are plentiful and can be found among other places at the www-sites of the developers of the respective languages, and the NCSA-server of the developers of the CGI-interface.

Naturally, a competent professional in the industry can implement the method based on the invention in ways not subsumed under the above description within the restrictions set by the following claims.

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#### Claims

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1. A method for remote directing a www-browser, in which the controller, using his own www-browser (102), specifies via Internet an HTML-document for the browser of one or more listeners, being accessible to them trough their browsers (108), and to said controller trough his or her browser (101), to a program, which is a part of the method and is located in a server (100) accessible to said controller; said program controlling code containing files embedded onto the page (104); said controller instructing the listeners to choose said HTML-document, further specifying by means of his browser the address of the www-page (110) intended to be displayed in the window (107) of the page (104); and said address being further delivered to the server and to said program, which embeds said address of the page (110) onto the listener's page (104) wherein: the listeners' page (104), upon being displayed by listeners' browsers (108), makes said browsers continuously check for possible changes in said documents in said controller's server, and finding the changes, refreshes the copy of the page (104) of said listener's browser to match said files at the server.

- 2. A method as claimed in claim 1 wherein the refreshing of the client's page (104) is conditioned by monitoring change in a parameter residing in the said server, changed by the program (103) upon a different www-address having been chosen, after which the copy of the page of the client's www-browser is refreshed.
- 3. A method as claimed in claim 1, wherein the controller can pick the address of the www-document displayed on the clients' www-browsers from a previously created list of www-addresses
- 4. A method as claimed in claim 1, 2, and 3 wherein the controller can choose the client allowed to access to the page (104) from a previously created list displayed on his or her www-browser.

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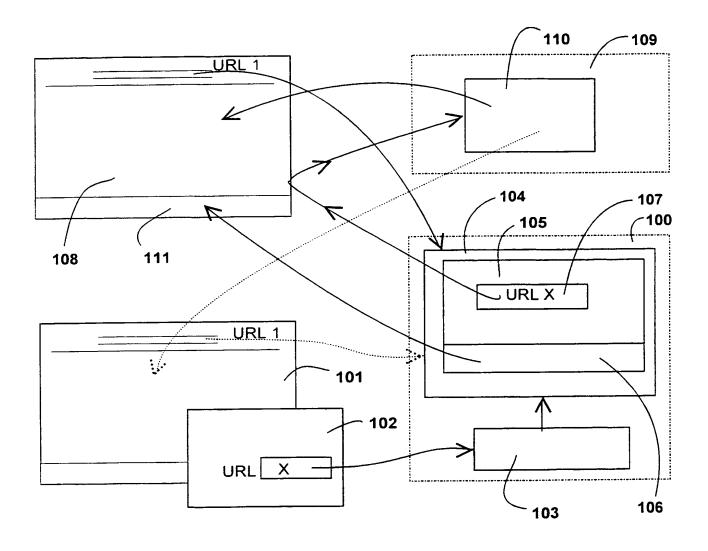


Fig. 1

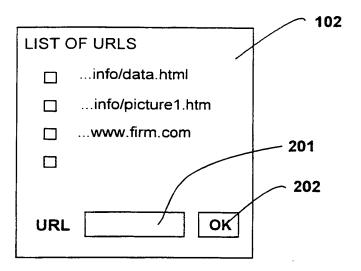


Fig. 2

Facsimile No. +46 8 666 02 86

Form PCT/ISA/210 (second sheet) (July 1998)

International application No.

PCT/FI 00/00606

## A. CLASSIFICATION OF SUBJECT MATTER IPC7: H04L 12/18, H04M 11/06 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: HO4M, HO4L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1-4 Х WO 9813995 A1 (BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY), 2 April 1998 (02.04.98), page 18, line 15 - page 20, line 11 X EP 0847178 A2 (INTERNATIONAL BUSINESS MACHINES 1-4 CORPORATION), 10 June 1998 (10.06.98), column 13, line 26 - column 14, line 42 WO 9836456 A1 (BRITISH TELECOMMUNICATIONS PUBLIC 1 - 4A LIMITED COMPANY), 20 August 1998 (20.08.98), page 5, line 9 - line 27 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive filing date document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination heing obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 0 1 -12- **2**000 28 November 2000 Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Kristoffer Ogebjer/LR

Telephone No. + 46 8 782 25 00

International application No.

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WO 9737484 A1 (NORTHERN TELECOM LIMITED), 9 October 1997 (09.10.97), page 19, line 22 - page 20, line 37	1-4
P,A	WO 0033533 A1 (RED FIG LIMITED), 8 June 2000 (08.06.00), page 22, line 5 - line 20; page 23, line 10 - line 15; page 24, line 23 - line 28	1-4
P,A	US 5978828 A (P. GREER ET AL), 2 November 1999 (02.11.99), figure 10	1-2
E	WO 0045240 A2 (QUINTAS CORPORATION), 3 August 2000 (03.08.00), page 32, line 18 - line 31; page 24, line 6 - line 11	1-2
	· .	

Information on patent family members

International application No.

02/11/00

	Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO	9813995	A1	02/04/98	AU EP GB GB GB	4315097 A 1008258 A 9620000 D 9620260 D 9705097 D	17/04/98 14/06/00 00/00/00 00/00/00 00/00/00
EP	0847178	A2	10/06/98	CA CN JP US	2223845 A 1185071 A 10257190 A 5916302 A	06/06/98 17/06/98 25/09/98 29/06/99
WO	9836456	A1	20/08/98	AU EP	5995198 A 0962029 A	08/09/98 08/12/99
WO	9737484	A1	09/10/97	CA EP JP	2221702 A 0829160 A 11506595 T	09/10/97 18/03/98 08/06/99
WO	0033533	A1	08/06/00	AU GB GB	6213299 A 2344491 A 9826640 D	19/06/00 07/06/00 00/00/00
US	5978828	Α	02/11/99	NONE		
WO	0045240	A2	03/08/00	NONE		

#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



# 

# (43) International Publication Date 18 January 2001 (18.01.2001)

#### **PCT**

# (10) International Publication Number WO 01/05093 A1

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(22) International Filing Date: 3 July 2000 (03.07.2000)

(25) Filing Language:

Finnish

(26) Publication Language:

English

(30) Priority Data: 991557

7 July 1999 (07.07.1999) F

(71) Applicant (for all designated States except US): CU-RIOSITAS LTD OY [FI/FI]; c/o Innovo Ky, Hermiankatu 8D, FIN-33720 Tampere (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HÄLIKKÄ, Antero [FI/FI]; Nurmenkatu 6, FIN-33820 Tampere (FI). KOSKENSILTA, Aatu [FI/FI]; Kaupinkatu 24 A 22, FIN-33500 Tampere (FI).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

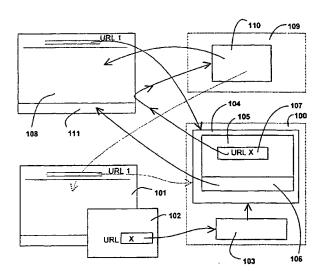
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR REMOTE DIRECTING OF WWW-BROWSER



(57) Abstract: The content of the invention is a method, by which it is possible to remotely, for example within phone-contact range, change the www-document (104) displayed on the www-browsers (108) of one or more clients, with a controller window (102) on the controller's own www-browser (101). According to the invention, the controller instructs the clients to choose a particular www-document (104) residing in a server (100) used by the controller, said document being maintained by a server-side program (103) which can be commanded by the controller to embed URLs in the said www-document. As a result of the actions of the program, the clients' www-browsers display the document (110) specified by the URL given by the controller. This is achieved by having the clients' www-browsers update its state from the server, causing the displayed page to be refreshed, according to the controller's choice.

WO 01/05093

International application No.

A. CLASS	SIFICATION OF SUBJECT MATTER	<u></u>				
IPC7: H	HO4L 12/18, HO4M 11/06 to International Patent Classification (IPC) or to both na	ational classification and IPC				
	OS SEARCHED					
Minimum d	ocumentation searched (classification system followed by	classification symbols)				
	HO4M, HO4L		·			
	tion searched other than minimum documentation to the	extent that such documents are included in	the fields searched			
	-I,NO classes as above					
Electronic d	ata base consulted during the international search (name	of data base and, where practicable, search	n terms used)			
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
Х	WO 9813995 A1 (BRITISH TELECOMMU LIMITED COMPANY), 2 April 19 line 15 - page 20, line 11	UNICATIONS PUBLIC 1998 (02.04.98), page 18,	1-4			
Х	EP 0847178 A2 (INTERNATIONAL BUSINESS MACHINES 1-4 CORPORATION), 10 June 1998 (10.06.98), column 13, line 26 - column 14, line 42					
A	WO 9836456 A1 (BRITISH TELECOMMU LIMITED COMPANY), 20 August page 5, line 9 - line 27		1-4			
X Furth	er documents are listed in the continuation of Box	C. X See patent family anne.	х.			
"A" docume	categories of cited documents: ent defining the general state of the art which is not considered I particular relevance	"[" later document published after the int date and not in conflict with the appli the principle or theory underlying the	cation but cited to understand			
"E" carlier a	application or patent but published on or after the international	"X" document of particular relevance: the considered novel or cannot be considered novel or cannot be considered when the document is taken alon	cred to involve an inventive			
cited to special "O" docume means	establish the publication date of another citation or other reason (as specified) ant referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance: the considered to involve an inventive ste combined with one or more other such cing obvious to a person skilled in the control of th	claimed invention cannot be p when the document is h documents, such combination			
	nt published prior to the international filing date but later than rity date claimed	"&" document member of the same patent	family			
Date of the	e actual completion of the international search	Date of mailing of the international :				
	ember 2000					
	mailing address of the ISA/	Authorized officer				
	Patent Office , S-102 42 STOCKHOLM	Kristoffer Ogebjer/LR				
	No. +46 8 666 02 86	Telephone No. + 46 8 782 25 00				

International application No.

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WO 9737484 A1 (NORTHERN TELECOM LIMITED), 9 October 1997 (09.10.97), page 19, line 22 - page 20, line 37	1-4
P,A	WO 0033533 A1 (RED FIG LIMITED), 8 June 2000 (08.06.00), page 22, line 5 - line 20; page 23, line 10 - line 15; page 24, line 23 - line 28	1-4
P,A	US 5978828 A (P. GREER ET AL), 2 November 1999 (02.11.99), figure 10	1-2
E	WO 0045240 A2 (QUINTAS CORPORATION), 3 August 2000 (03.08.00), page 32, line 18 - line 31; page 24, line 6 - line 11	1-2

Information on patent family members

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02/11/00

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MO	0045240	A2	03/08/00	NONE			
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- KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
- patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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(72) Inventors; and

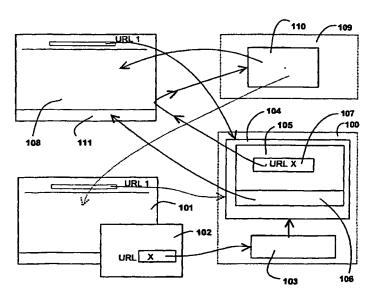
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UG, US, UZ, VN, YU, ZA, ZW.

[Continued on next page]

(54) Title: METHOD FOR REMOTE DIRECTING OF WWW-BROWSER



(57) Abstract: The content of the invention is a method, by which it is possible to remotely, for example within phone-contact range, change the www-document (104) displayed on the www-browsers (108) of one or more clients, with a controller window (102) on the controller's own www-browser (101). According to the invention, the controller instructs the clients to choose a particular www-document (104) residing in a server (100) used by the controller; said document being maintained by a server-side program (103) which can be commanded by the controller to embed URLs in the said www-document. As a result of the actions of the program, the clients' www-browsers display the document (110) specified by the URL given by the controller. This is achieved by having the clients' www-browsers update its state from the server, causing the displayed page to be refreshed, according to the controller's choice.



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Method for remote directing of www-browser

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The content of the invention is a method by which the www-document displayed on one or more www-browsers can be changed by the controller through a window of his or her www-browser.

Simultaneous visual communication and phone contact is possible with current Internet technology. However, this requires that all parties have the necessary audio hardware as well as special software extensions to known www-browsers. such as Microsoft Internet Explorer and Netscape Navigator. With current technology it is possible to augment phone communication with presenting www-documents. usually to provide visual information. The transmission of visual information is based on active use of the www-browser. in that the controller gives www-addresses to the listener. who then proceeds to direct his www-browser to the given www-address. The www-addresses are usually fairly long, and thus the imprecision of instructions given on phone is a disadvantage, especially due to the presence of special control characters and case sensitivity in the www-addresses (URLs). Especially in a situation in which it is desired that a phone negotiation be augmented with presentation of www-pages, the maintainer of the negotiation has to specifically instruct each party in using their respective www-browsers, making it hard for them to appreciate the contents of the presented www-documents. This makes the arrangement impractical; the disadvantage manifests itself especially when the intended audience is large, with a video projector or similar piece of equipment used to display the www-pages. Also in e-commerce there are situations in which a direct contact to the customer is required. making the phone a natural choice for communication. In such situations, say, product presentations can only be done by means of www-documents with the relevant information - this however requires constant instruction from the maintainer for the client in directing his www-browser to the desired documents.

The aforementioned situations have created a need for creating a method by which the www-browser of a listener can be controlled by the presenter without the need for the active participation of the client.

Known methods for similar purposes require all parties to obtain special software and equipment and install them onto their computers prior to the presentation.

The intent of the invention is to avoid the disadvantage caused by the special purpose additional software and equipment, namely their cost, the additional time required to

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instruct clients in installing and maintaining the special purpose components and the possibility of errors in writing and communicating URLs. The invention possesses the specific advantage of all parties being able to use the method with ordinary Internet-connections and ordinary phone line utilizing pre-existing Internet and telecommunications technology.

Characteristic to the method based on the invention is that in order to avoid the aforementioned disadvantages and bring forth the aforementioned advantages, the user of the method. controller, defines by means of her or his www-browser the specific www-document which is displayed in a window of the clients' www-browsers.

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Method based on the invention is illustrated and explicated by means of the following diagrams. in which

Fig. 1 presents the functional portions and interrelations thereof of the remote controlling of www-browser.

Fig. 2 presents the control window, into which previously saved URLs can be brought.

The user of the method, controller, asks his clients or conversant, henceforth listener. to direct his or her www-browser to a www-document specified by an URL pointing to a document in a server (100). The controller monitors this www-document in his own www-browser (101). The controller gives in the controller window in his or her www-browser (102) an address URL X, which is received in the server (100), and directed to a CGI-program (103) for processing. In various well known ways, it is possible to create partially or entirely dynamic www-documents. In the example the CGI-program (103) creates a www-document (104) containing the URL 1, and for it a file (105), and optionally an information frame (106). In the file (105) there is a frame (107) which forms a window for the www-document to be presented, found at URL X. Both the client's www-browser (108) and the controllers www-browser (101) upon receiving the www-document from URL 1, retrieve in the frame (107) a www-document at server (109) pointed to by the URL X the file (105). The document (104) ensures that when the URL X is changed, www-browsers (101) and (108) refresh the document respectively. This can be achieved by means of the command "RELOAD" or "REFRESH" supported by www-browsers. The document (104) can also implement a mechanism, which continously monitors a parameter at the server (100), and a program (103) which when URL X is changed sets the parameter, which is noticed by the mechanism, which then proceeds to refresh the document (104). A possible implementation uses the JavaScript-language element "FileUpload" or an equivalent thereof, with the parameter

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residing within a file in server (100). In the implementation, special care is needed to ensure that the www-browsers retrieve the actual changed documents instead of relying on their local on-disk cache. This can be done in several ways, which include using the "META"-field of html-documents to request the www-browser to update the changing parameter.

Fig. 2. illustrates one possibility of extending the control window (102), allowing previously saved URLs be brought into it. For example, the window could function in such a fashion that the URL chosen is transferred to the input field (201) of the window (102), from which it is transferred to the server (100) (Fig 1.) by pressing the acknowledgement button (202). In similar fashion it is possible to create a control window which uses a previously created list of listeners allowed to access the www-document (104).

The www-documents and server-side programs required to implement the method as described above are well-known technology, and thus a competent person can create a working implementation based on the description above in an alternative ways in different programming languages, both interpreted and compiled, including combinations of both. These languages include, but are not restricted to, ActiveX, C, C++, Java, JavaScrpt, JScript, Perl, VBScript. Instructions on implementing the details of the method are plentiful and can be found among other places at the www-sites of the developers of the respective languages, and the NCSA-server of the developers of the CGI-interface.

Naturally, a competent professional in the industry can implement the method based on the invention in ways not subsumed under the above description within the restrictions set by the following claims.

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#### Claims

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1. A method for remote directing a www-browser, in which the controller, using his own www-browser (102), specifies via Internet an HTML-document for the browser of one or more listeners, being accessible to them trough their browsers (108), and to said controller trough his or her browser (101), to a program, which is a part of the method and is located in a server (100) accessible to said controller; said program controlling code containing files embedded onto the page (104); said controller instructing the listeners to choose said HTML-document, further specifying by means of his browser the address of the www-page (110) intended to be displayed in the window (107) of the page (104); and said address being further delivered to the server and to said program, which embeds said address of the page (110) onto the listener's page (104) wherein: the listeners' page (104), upon being displayed by listeners' browsers (108), makes said browsers continuously check for possible changes in said documents in said controller's server, and finding the changes, refreshes the copy of the page (104) of said listener's browser to match said files at the server.

- 2. A method as claimed in claim 1 wherein the refreshing of the client's page (104) is conditioned by monitoring change in a parameter residing in the said server, changed by the program (103) upon a different www-address having been chosen, after which the copy of the page of the client's www-browser is refreshed.
- 3. A method as claimed in claim 1, wherein the controller can pick the address of the www-document displayed on the clients' www-browsers from a previously created list of www-addresses
- 4. A method as claimed in claim 1, 2, and 3 wherein the controller can choose the client allowed to access to the page (104) from a previously created list displayed on his or her www-browser.

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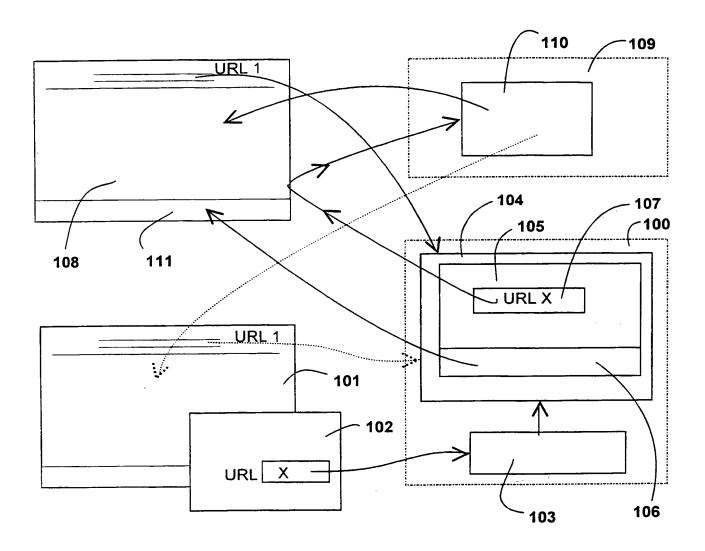


Fig. 1

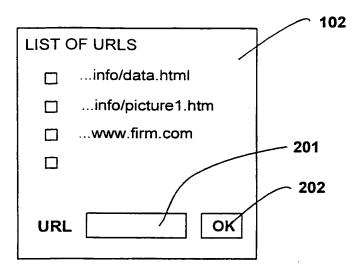


Fig. 2

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### PCT/FI 00/00606 A. CLASSIFICATION OF SUBJECT MATTER IPC7: H04L 12/18, H04M 11/06 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: H04M, H04L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category\* Relevant to claim No. X WO 9813995 A1 (BRITISH TELECOMMUNICATIONS PUBLIC 1-4 LIMITED COMPANY), 2 April 1998 (02.04.98), page 18, line 15 - page 20, line 11 EP 0847178 A2 (INTERNATIONAL BUSINESS MACHINES X 1 - 4CORPORATION), 10 June 1998 (10.06.98), column 13, line 26 - column 14, line 42 WO 9836456 A1 (BRITISH TELECOMMUNICATIONS PUBLIC A 1-4 LIMITED COMPANY), 20 August 1998 (20.08.98), page 5, line 9 - line 27 Χİ Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to he of particular relevance carlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 0 1 -12- 2000 <u> 28 November 2000</u> Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Kristoffer Ogebjer/LR

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